

CLAIMS

1. A wet gas purification method for removing ammonia in a gas comprising:

5 water-washing step for absorbing ammonia in the gas into absorbent to remove the ammonia; and

 an ammonia treating step for stripping the ammonia from the absorbent discharged after the water-washing step to separate an off-gas containing ammonia from effluent,

10 wherein, makeup water is charged continuously or intermittently in the water-washing step so that the concentration of the ammonia is 10 ppm or lower after the water-washing step.

2. The wet gas purification method according to claim 15 1, wherein the water-washing step comprises a cooling step and a cleaning step.

3. The wet gas purification method according to claim 1, further comprising a step of burning the off-gas after the ammonia treating step.

20 4. The wet gas purification method according to claim 1, wherein the effluent in the ammonia treating step is circulated to the washing step as makeup water.

5. A wet gas purification system for removing ammonia in the gas, comprising:

25 a water-washing tower for absorbing ammonia in the gas

into absorbent to remove the ammonia; and

an ammonia stripper for stripping the ammonia from the absorbent discharged downstream of the water-washing tower to separate an off-gas containing ammonia from effluent

5 wherein, makeup water is charged continuously or intermittently in the water-washing tower so that the concentration of ammonia is 10 ppm or lower on the downstream of the water-washing tower.

6. The wet gas purification system according to claim
10 5, wherein the water-washing tower comprises a gas cooling tower and a gas cleaning tower.

7. The wet gas purification system according to claim 5, further comprising an off-gas fired furnace for burning the off-gas on the downstream of the ammonia stripper.

15 8. The wet gas purification system according to claim 5, wherein the effluents from the ammonia stripper are circulated to the water-washing tower as makeup water.